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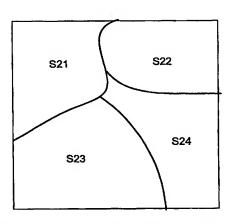
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(54) Title: SEGMENT-BASED MOTION ESTIMATION

100

b11 b12 b13 b14 b15 b16 b17 **b18** b22 b25 b26 b27 b28 b21 b23 b24 **S12** S11. b37 **b38** b31 b32 **b33 b3**# b35 b36 b47 b42 b44 **6**45 **b46 b48** b41 b52 b53 b54 b55 b56 **b57 b58** b51 b61 b62 b63 b64 **6**65 b66 **b67 b68** S13-**S14** b71 **b72 b73** b74 b7 **b76 b77 b78** b86 b87 b84 b85 **b88** b81 b82 b83



(57) Abstract: A method to determine motion vectors for respective segments (S11-S14) of a segmented image (100) comprises: creating sets of candidate motion vectors for the respective segments (S11-S14); dividing the segmented image (100) into a grid of blocks (b11-b88) of pixels; determining for the blocks (b11-b88) of pixels which of the candidate motion vectors belong to the blocks (b11-b88), on basis of the segments (S11-S14) and the locations of the blocks (b11-b88) within the segmented image (100); computing partial match errors for the blocks (b11-b88) on basis of the determined candidate motion vectors and on basis of pixel values of a further image (102); combining the partial match errors into a number of match errors per segment; selecting for each of the sets of candidate motion vectors respective candidate motion vectors on basis of the match errors; and assigning the selected candidate motion vectors as the motion vectors for the respective segments (S11-S14).